

THE STUDY OF ICE FORMATION OUTSIDE A CYLINDRICAL WALL

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ABSTRACT

The solidification topic, as a matter of the temperature field in solid and liquid phases calculation and of the solid-liquid interface propagation, presents a special interest (from the theoretical and practical point of view), as the conductive transfer processes together with the phase transition phenomenon are present in various applications, such as the ingots solidification, the controlled alloys solidification in order to obtain a certain metallographic structure, food freezing, soil freezing and de-freezing, ablation phenomenon to aerodynamic heating, phase change thermal storage, etc.

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